

## TITLE of the INVENTION

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"Encoding and decoding methods and devices and systems using them"

## TEXT of the ABSTRACT

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For encoding a source sequence of symbols ( $\underline{u}$ ) as an encoded sequence: the source sequence ( $\underline{u}$ ) is divided (508) into  $p_1$  first sub-sequences ( $\underline{U}_i$ ),  $p_1$  being a positive integer, and each of the first sub-sequences ( $\underline{U}_i$ ) is encoded by means of a first circular convolutional encoding method; the source sequence ( $\underline{u}$ ) is interleaved (506) into an interleaved sequence ( $\underline{u}^*$ ); and the interleaved sequence ( $\underline{u}^*$ ) is divided (507) into  $p_2$  second sub-sequences ( $\underline{U}'_j$ ),  $p_2$  being a positive integer, and each of the second sub-sequences ( $\underline{U}'_j$ ) is encoded by means of a second circular convolutional encoding method. At least one of the integers  $p_1$  and  $p_2$  is strictly greater than 1 and at least one of the first sub-sequences ( $\underline{U}_i$ ) is not interleaved into any of the second sub-sequences ( $\underline{U}'_j$ ).

Figure 5.